STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 198148

TO: Shailendra Kumar **Location: 5c03 / 5c18** **Tuesday, August 15, 2006** **Art Unit: 1621** **Phone: 571-272-0640** **Serial Number: 10 / 541225**	**From: Jan Delaval** **Location: Biotech-Chem Library** **Remsen 1a51** **Phone: 571-272-2504** **jan.delaval@uspto.gov**

Search Notes

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=> fil reg
FILE 'REGISTRY' ENTERED AT 08:20:37 ON 15 AUG 2006
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STRUCTURE FILE UPDATES:   14 AUG 2006  HIGHEST RN 901253-54-1
DICTIONARY FILE UPDATES:  14 AUG 2006  HIGHEST RN 901253-54-1

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predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
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http://www.cas.org/ONLINE/UG/regprops.html

=> d sta que l32
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L18             SCR 2021
L19             SCR 1126 OR 1149 OR 1164
L20             SCR 1199 AND 1992
L22             STR
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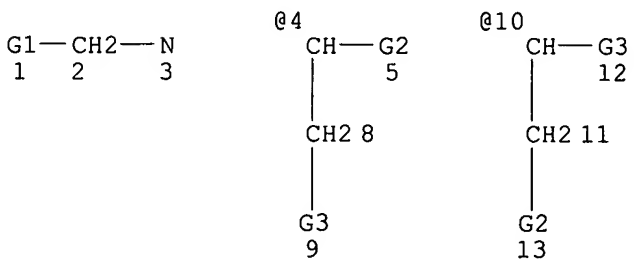


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VAR G3=O/S/N
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  11

STEREO ATTRIBUTES: NONE
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L30             STR
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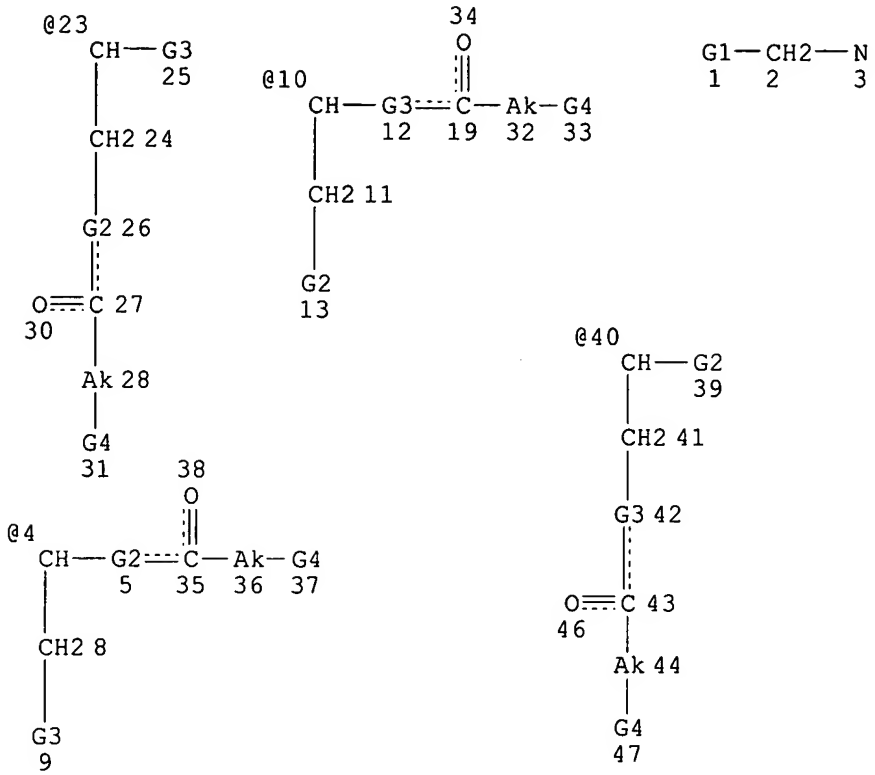

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CONNECT IS E2 RC AT 36
CONNECT IS E2 RC AT 44
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 35

STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 7731 ITERATIONS 110 ANSWERS
SEARCH TIME: 00.00.01

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L17 SCR 1926 OR 2019
L18 SCR 2021
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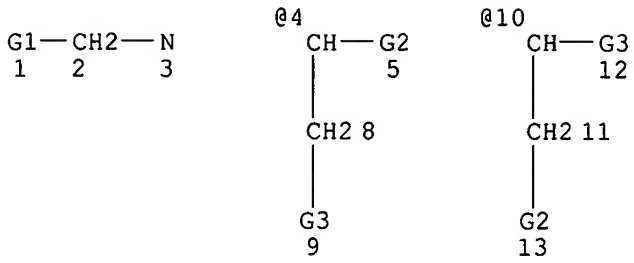
L20 SCR 1199 AND 1992

L22 STR



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VAR G2=O/S
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NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
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STEREO ATTRIBUTES: NONE
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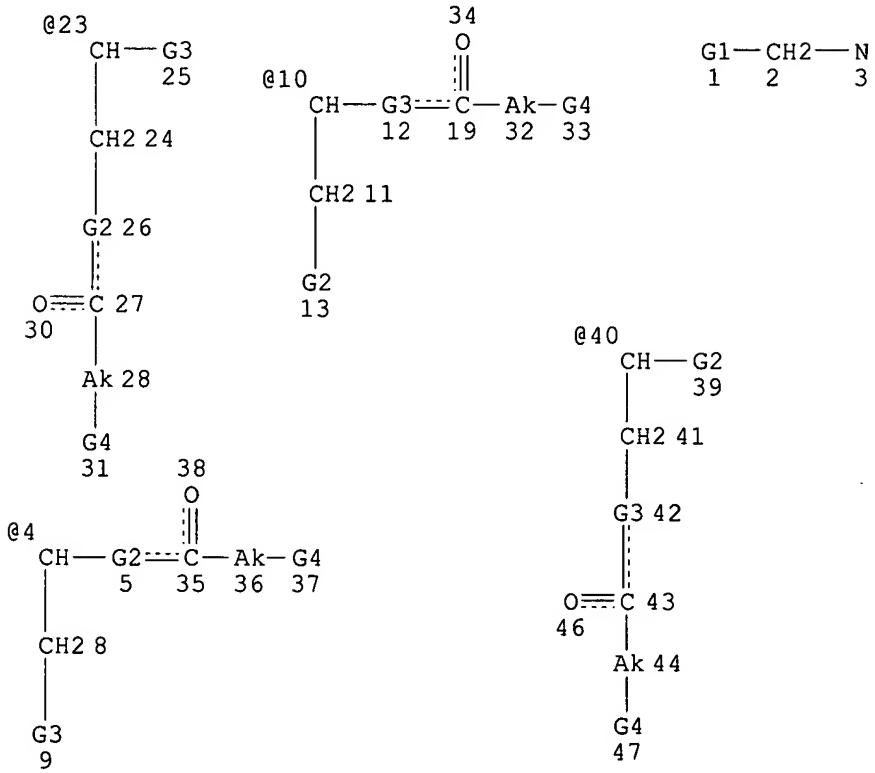
L30 STR



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DEFAULT ECLEVEL IS LIMITED

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L33             STR
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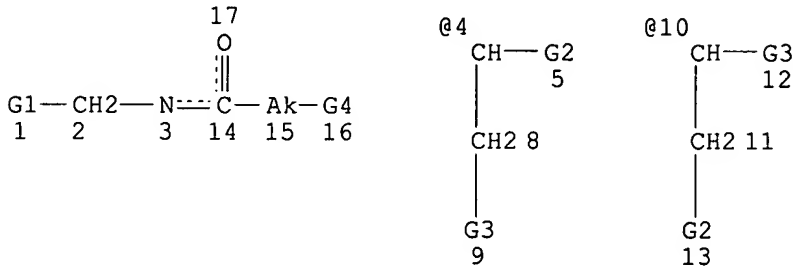


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VAR G3=O/S/N
VAR G4=S/SE
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DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE
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L37         154 SEA FILE=REGISTRY ABB=ON  PLU=ON  L32 OR L35


=> d his

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               SET COST OFF

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L1             1 S US20060069156/PN OR (US2005-541225# OR WO2004-FR319 OR FR2003
               E GENFIT/PA,CS
L2            27 S E3-E13
               E DARTEIL/AU
L3            20 S E4-E8
               E CAUMONT/AU
L4            11 S E8,E14
               E BERTRAND/AU
L5             5 S E3
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                E BERTRAND K/AU
L6            8 S E3-E5,E7
                E NAJIB/AU
L7           33 S E22,E24,E25
                SEL RN L1

     FILE 'REGISTRY' ENTERED AT 07:29:49 ON 15 AUG 2006
L8           35 S E1-E35
L9            9 S 733010-33-8 OR 733010-35-0 OR 733010-37-2 OR 733010-39-4 OR 7
L10           1 S (733010-33-8 OR 733010-35-0 OR 733010-37-2 OR 733010-39-4 OR
L11          10 S L9,L10
L12          25 S L8 NOT L11
L13             STR
L14           1 S L13
L15             STR L13
L16           0 S L15
L17             SCR 1926 OR 2019
L18             SCR 2021
L19             SCR 1126 OR 1149 OR 1164
L20             SCR 1199 AND 1992
L21           0 S L13 AND (L17 OR L18) AND L19 AND L20
L22             STR L13
L23          25 S L22 AND L20 AND L19 AND (L18 OR L17)
L24        7731 S L22 AND L20 AND L19 AND (L18 OR L17) FUL
                SAV L24 KUMAR541/A TEMP
L25          18 S L8 AND L24
L26           8 S L25 NOT L11
L27           5 S L26 NOT (C19H39NO3S OR C15H28N2O5S OR C12H21NO4S2)
L28          15 S L11,L27
L29           8 S L15 SAM SUB=L24
L30             STR L15
L31           7 S L30 SAM SUB=L24
L32         110 S L30 FUL SUB=L24
                SAV L32 KUMAR541A/A
L33             STR L22
L34           9 S L33 SAM SUB=L24
L35         141 S L33 FUL SUB=L24
                SAV L35 KUMAR541B/A
L36             STR
L37         154 S L32 OR L35
L38           1 S L36 SAM SUB=L37
L39          19 S L36 FUL SUB=L37
                SAV L39 KUMAR541C/A
L40         135 S L37 NOT L39
L41         120 S L40 NOT L28

     FILE 'HCAOLD' ENTERED AT 08:02:34 ON 15 AUG 2006
L42           0 S L28
L43           1 S L41
                SEL AN
                EDIT E36 /AN /OREF

     FILE 'HCAPLUS' ENTERED AT 08:03:57 ON 15 AUG 2006
L44           1 S E36
L45           3 S L28
L46          42 S L41
L47           1 S L44 AND L45,L46
L48           3 S L45 AND L1-L7
L49           2 S L46 AND L1-L7
L50          31 S L46 AND (PD<=20030212 OR PRD<=20030212 OR AD<=20030212)
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L51           0 S L41 (L) (THU OR PAC OR PKT OR DMA)/RL AND L50
L52           0 S L41 (L) BAC/RL AND L50
L53          14 S L50 AND (PHARMACEUT? OR PHARMACOL? OR BIOMOL? OR PATHOL? OR C
L54          16 S L50 AND P/DT
L55          24 S L53,L54
L56           7 S L50 NOT L55
                SEL HIT RN L50

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L57          62 S E37-E98
L58          58 S L41 NOT L57
L59           3 S L58 AND (C19H40N2OS2 OR C35H69NO2S4 OR C47H92N2O3S2)

     FILE 'HCAOLD' ENTERED AT 08:17:01 ON 15 AUG 2006
L60           0 S L59

     FILE 'HCAPLUS' ENTERED AT 08:17:04 ON 15 AUG 2006
L61           2 S L59
L62           4 S L47-L49,L61
L63           4 S L45,L62
                SEL RN

     FILE 'REGISTRY' ENTERED AT 08:19:24 ON 15 AUG 2006
L64         168 S E99-E266
L65          23 S L64 AND L24
L66           5 S L65 NOT L28,L59

     FILE 'REGISTRY' ENTERED AT 08:20:37 ON 15 AUG 2006

=> fil hcaplus
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FILE LAST UPDATED: 14 Aug 2006  (20060814/ED)

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 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> d 163 bib abs hitstr retable tot

L63  ANSWER 1 OF 4  HCAPLUS  COPYRIGHT 2006 ACS on STN
AN   2004:650984  HCAPLUS
DN   141:190511
TI   Preparation of acyl aminopropanediols as PPAR, in particular PPARα,
```

agonists and antioxidants for treating cerebral ischemia and related diseases

IN **Darteil, Raphael; Caumont, Bertrand Karine; Najib, Jamila**

PA **Genfit S. A., Fr.**

SO Fr. Demande, 95 pp.
CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2850969	A1	20040813	FR 2003-1688	20030212 <--
	FR 2850969	B1	20050325		
	AU 2004213203	A1	20040902	AU 2004-213203	20040212 <--
	CA 2515680	AA	20040902	CA 2004-2515680	20040212 <--
	WO 2004074239	A1	20040902	WO 2004-FR319	20040212 <--
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	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1592660	A1	20051109	EP 2004-710412	20040212 <--
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	CN 1747928	A	20060315	CN 2004-80004024	20040212 <--
	JP 2006517570	T2	20060727	JP 2006-502143	20040212 <--
	US 2006069156	A1	20060330	US 2005-541225	20050701 <--
PRAI	FR 2003-1688	A	20030212 <--		
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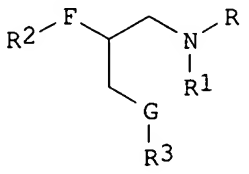
OS MARPAT 141:190511

GI



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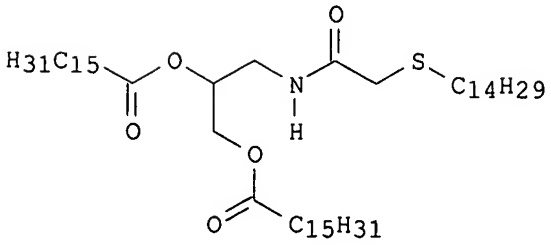

II

AB Title compds. I [wherein F, G = independently O, S, NR4; F = G = NR4 never possible; R, R4 = independently H, (un)saturated (un)substituted alkyl; R1, R2, R3 = independently H, C(:O)R5, C(:O)(CH2)2n+1-X-R6, with a least one of R1, R2, R3 = C(:O)(CH2)2n+1-X-R6; R5 = (un)saturated (un)substituted (C1-C25) alkyl, optionally containing a cyclic group; X = S, Se, SO, SO2; n = 0-11; R6 = (un)saturated (un)substituted (C3-C23) alkyl, optionally containing a cyclic group and/or O, S, Se, SO, SO2; with the exclusion of compds. for which FR2 = GR3 = OH; their optical and geometrical isomers, racemates, salts, hydrates and mixts.] were prepared as peroxisome proliferator-activated receptors-α (PPARα) agonists and antioxidants for treating cerebral ischemia and related diseases. For example, II was prepared in 3 steps from 1-bromotetradecane, mercaptoacetic acid, 3-aminopropane-1,2,-diol, and palmitic acid. In an antioxidant test, selected I diminished the formation of oxidation product of LDL by AAPH by 33%. Selected I were PPARα agonists and showed induced luciferase activity via PPARα/Gal4 transactivation. I are neuroprotectants useful for treating ischemia.

IT **733010-53-2P**, 1,3-Diamino-2-(tetradecylthioacetyloxy)propane dihydrochloride
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(PPARα agonist; preparation of acyl aminopropanediols as PPAR agonists for treating ischemia)

RN 733010-53-2 HCAPLUS

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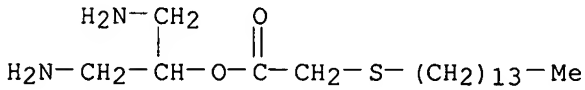
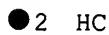
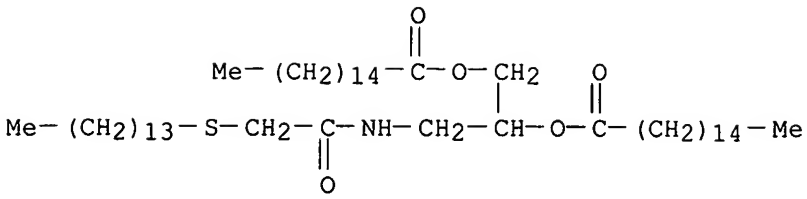




IT **733010-33-8P**, 1-[(Tetradecylthioacetyl)amino]-2,3-di[(palmitoyl)oxy]propane **733010-35-0P**, 3-[(Tetradecylthioacetyl)amino]-1,2-di[(tetradecylthioacetyl)oxy]propane **733010-37-2P**, 3-[(Palmitoyl)amino]-1,2-di[(tetradecylthioacetyl)oxy]propane **733010-39-4P**, 1,3-Di[(tetradecylthioacetyl)amino]propan-2-ol **733010-41-8P**, 1,3-Diamino-2-[[(tetradecylthio)acetyl]oxy]propane **733010-44-1P**, 1,3-Di[(tetradecylthioacetyl)amino]-2-[(tetradecylthioacetyl)oxy]propane **733010-48-5P 733010-54-3P**, 1,3-Di[(tetradecylthioacetyl)amino]-2-[(tetradecylthioacetyl)thio]propane **738604-36-9P**, 1,3-Dioleoylamino-2-(tetradecylthioacetyloxy)propane
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(PPARα agonist; preparation of acyl aminopropanediols as PPAR agonists for treating ischemia)

RN 733010-33-8 HCAPLUS

CN Hexadecanoic acid, 1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



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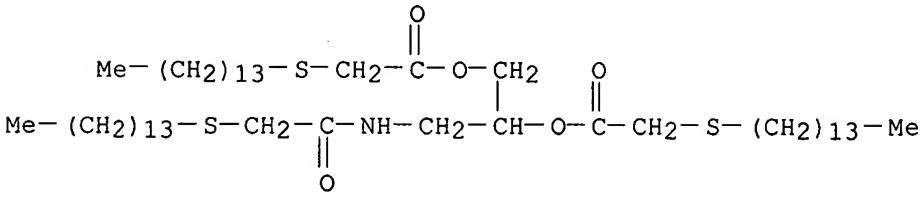

RN 733010-37-2 HCAPLUS
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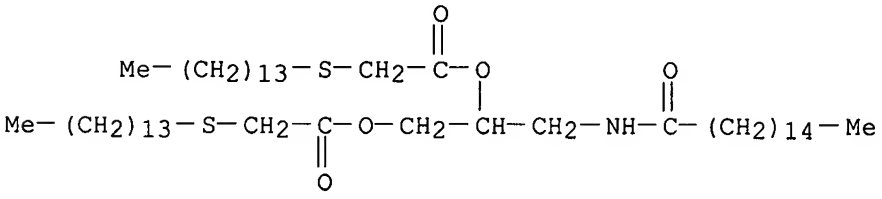

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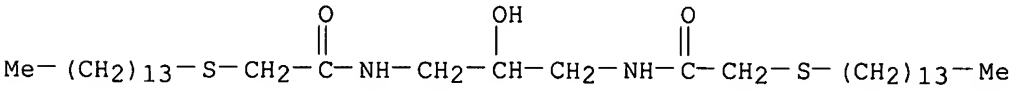
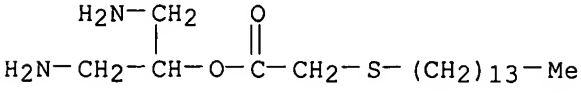
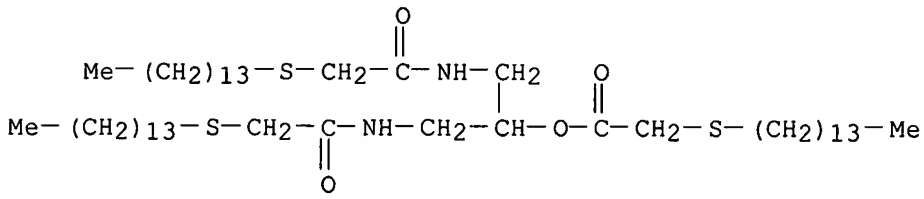


RN 733010-41-8 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester (9CI) (CA INDEX NAME)

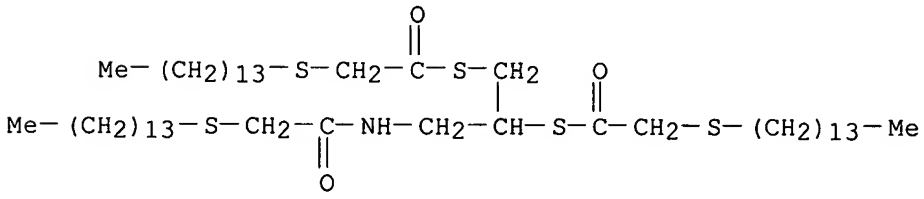


RN 733010-44-1 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-[[(tetradecylthio)acetyl]amino]-1-

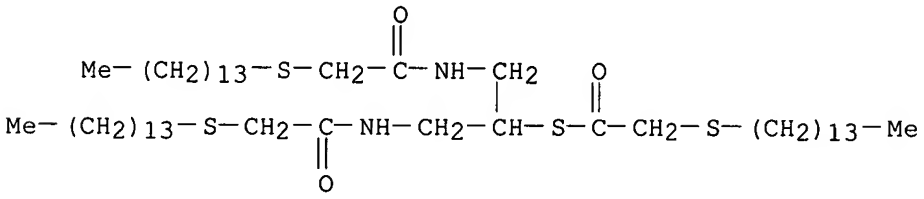
[[[(tetradecylthio)acetyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)



RN 733010-48-5 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



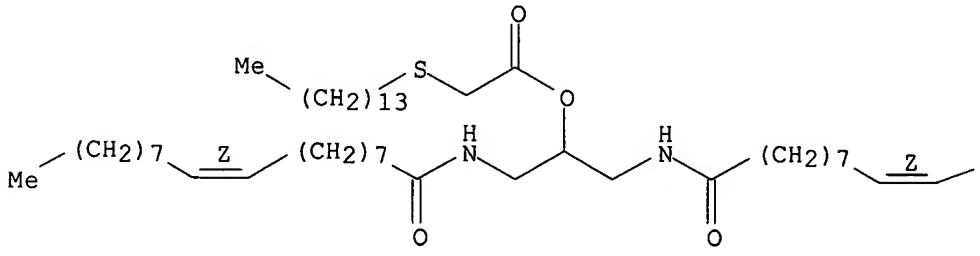
RN 733010-54-3 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(tetradecylthio)acetyl]amino]-1-[[[(tetradecylthio)acetyl]amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



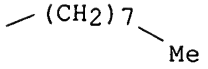
RN 738604-36-9 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-[[(9Z)-1-oxo-9-octadecenyl]amino]-1-[[[(9Z)-1-oxo-9-octadecenyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

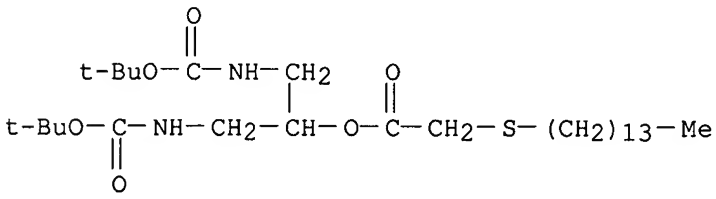


PAGE 1-B

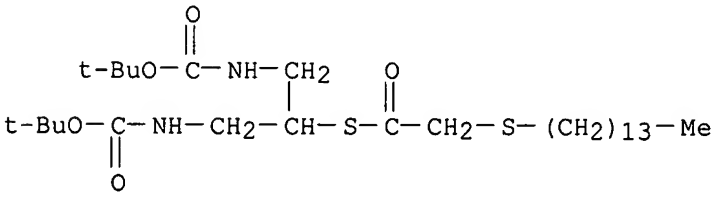


IT **733010-52-1P**, 1,3-Di[(tert-butyloxycarbonyl)amino]-2-[[(tetradecylthio)acetyl]oxy]propane **733010-56-5P**, 1,3-Di[(tert-butyloxycarbonyl)amino]-2-[(tetradecylthioacetyl)thio]propane **733010-61-2P**, 1-[(tert-Butyloxycarbonyl)amino]-2,3-di[[(tetradecylthio)acetyl]thio]propane **736992-56-6P**, 1-Amino-2,3-di[[(tetradecylthio)acetyl]thio]propane hydrochloride **738604-37-0P**, 1,3-Diamino-2-(tetradecylthioacetylthio)propane dihydrochloride
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of acyl aminopropanediols as PPAR agonists for treating ischemia)

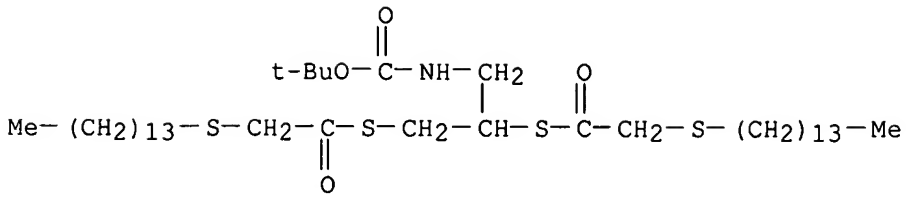
RN 733010-52-1 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)



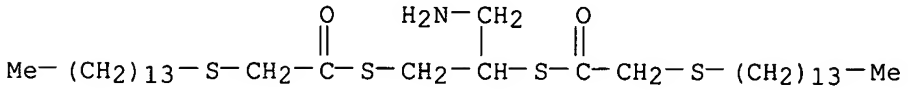
RN 733010-56-5 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



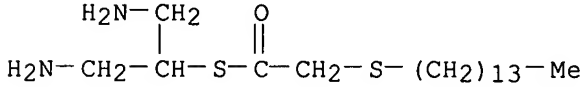
RN 733010-61-2 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)

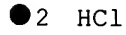


RN 736992-56-6 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-(aminomethyl)-1,2-ethanediyl] ester, hydrochloride (9CI) (CA INDEX NAME)



RN 738604-37-0 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-amino-1-(aminomethyl)ethyl] ester, dihydrochloride (9CI) (CA INDEX NAME)





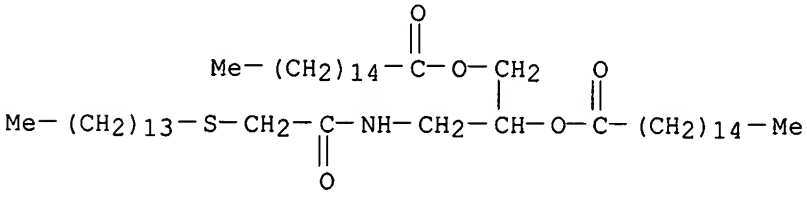
RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Johns Hopkins Universit	1999			WO 9910321 A	HCAPLUS
Rahman, M	1988	31	1656	Journal of Medicinal	HCAPLUS
Sankyo	2000			JP 2000169443 A	HCAPLUS

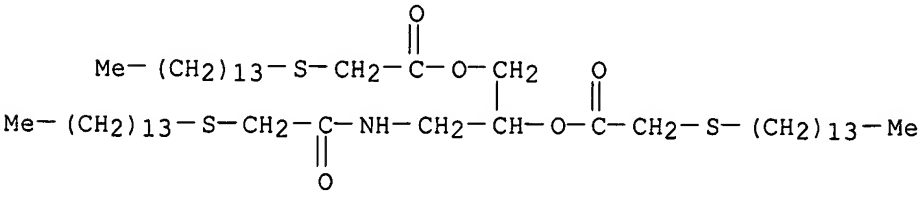
L63 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:650967 HCAPLUS
DN 141:185113
TI Therapeutic use of acyl glycerols and their nitrogen and sulfur analogs
IN **Darteil, Raphael; Caumont, Bertrand Karine; Najib, Jamila**
PA **Genfit S. A., Fr.**
SO Fr. Demande, 144 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

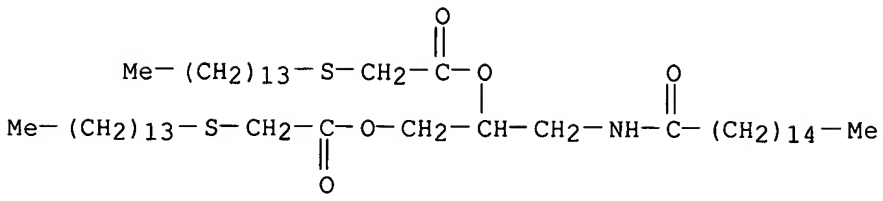
PI FR 2850870 A1 20040813 FR 2003-1691 20030212
FR 2850870 B1 20060728
WO 2004073698 A1 20040902 WO 2004-FR322 20040212
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
EP 1596845 A1 20051123 EP 2004-710415 20040212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
US 2006154984 A1 20060713 US 2005-542512 20050718
PRAI FR 2003-1691 A 20030212
WO 2004-FR322 W 20040212
OS MARPAT 141:185113
AB The invention discloses the use of acyl glycerols and their nitrogen and sulfur analogs for the therapy and in particular in human health. The compds. of the invention have advantageous pharmacol. properties and are in particular usable for the prevention and treatment of neurodegenerative diseases.
IT **733010-33-8P 733010-35-0P 733010-37-2P**
733010-39-4P 733010-46-3P 733010-48-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(acyl glycerols and nitrogen and sulfur analogs for therapeutic use)
RN 733010-33-8 HCAPLUS
CN Hexadecanoic acid, 1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



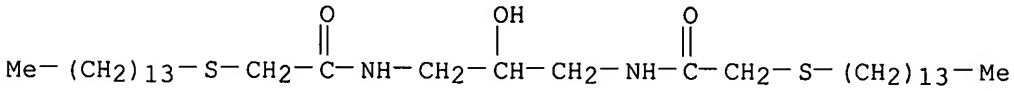
RN 733010-35-0 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



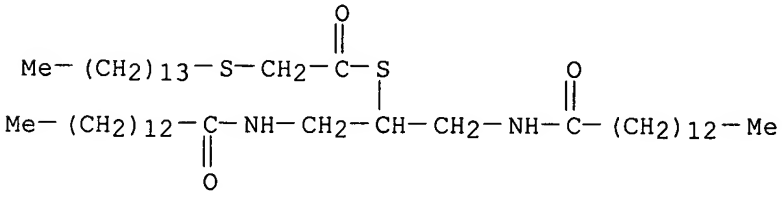
RN 733010-37-2 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 1-[[(1-oxohexadecyl)amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



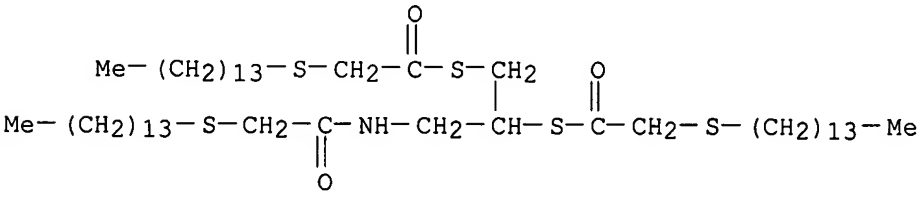
RN 733010-39-4 HCAPLUS
CN Acetamide, N,N'-(2-hydroxy-1,3-propanediyl)bis[2-(tetradecylthio)- (9CI) (CA INDEX NAME)



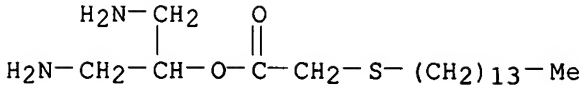
RN 733010-46-3 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[(1-oxotetradecyl)amino]-1-[[(1-oxotetradecyl)amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



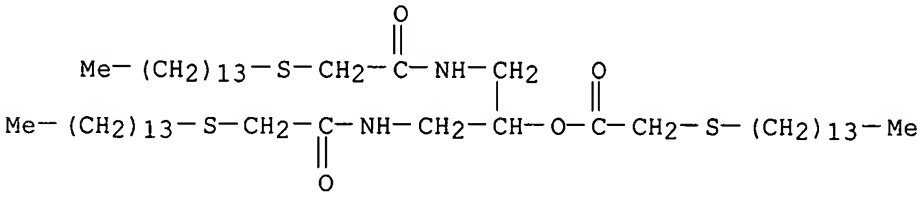
RN 733010-48-5 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



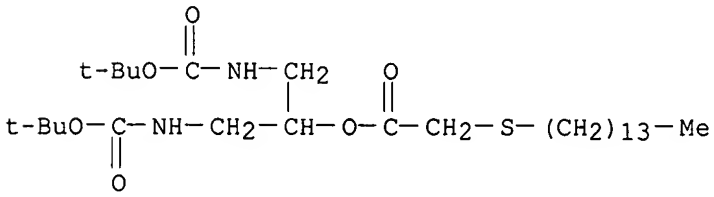
IT **733010-41-8 733010-44-1**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(acyl glycerols and nitrogen and sulfur analogs for therapeutic use)
RN 733010-41-8 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester (9CI) (CA INDEX NAME)



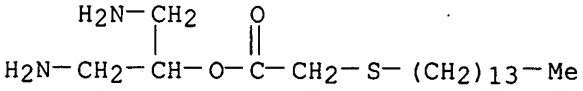
RN 733010-44-1 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-[[(tetradecylthio)acetyl]amino]-1-[[[(tetradecylthio)acetyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)

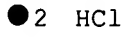


IT **733010-52-1P 733010-53-2P 733010-56-5P**
733010-57-6P 733010-61-2P 733010-62-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(acyl glycerols and nitrogen and sulfur analogs for therapeutic use)
RN 733010-52-1 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)

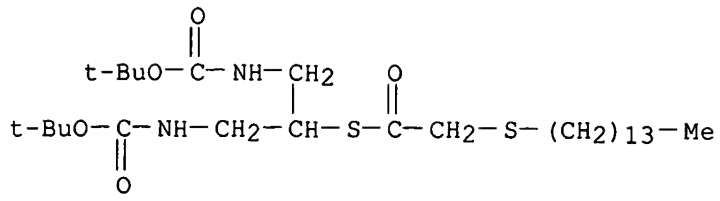


RN 733010-53-2 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester, dihydrochloride (9CI) (CA INDEX NAME)

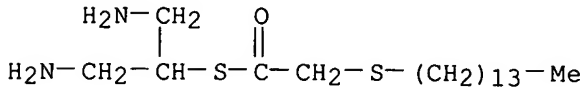




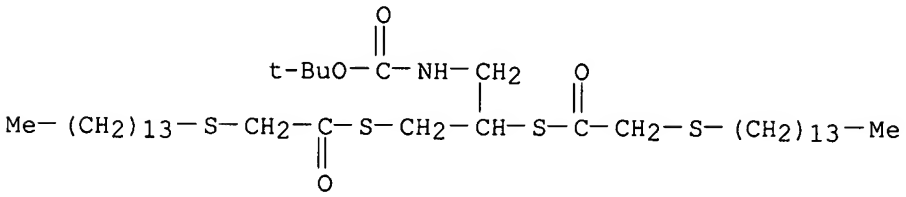
RN 733010-56-5 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



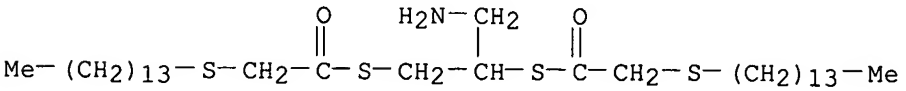
RN 733010-57-6 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-amino-1-(aminomethyl)ethyl] ester (9CI) (CA INDEX NAME)



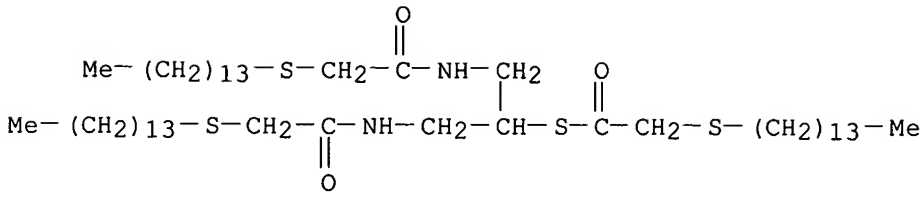
RN 733010-61-2 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



RN 733010-62-3 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-(aminomethyl)-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



IT **733010-54-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(acyl glycerols and nitrogen and sulfur analogs for therapeutic use)
RN 733010-54-3 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(tetradecylthio)acetyl]amino]-1-[[[(tetradecylthio)acetyl]amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Calabrese, V	2001	26	739	NEUROCHEMICAL RESEAR	HCAPLUS
Combs, C	2001	39	449	NEUROCHEMISTRY INTER	HCAPLUS
Markesbery, W	1999	9	133	BRAIN PATHOLOGY	HCAPLUS

L63 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:650966 HCAPLUS
DN 141:200217
TI Acyl aminopropanediols and their nitrogen and sulfur analogs, their preparation, and their therapeutic and cosmetic use
IN **Najib, Jamila**
PA **Genfit S. A., Fr.**
SO Fr. Demande, 114 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2850869	A1	20040813	FR 2003-1689	20030212
	FR 2850869	B1	20050325		
	CA 2515480	AA	20040902	CA 2004-2515480	20040212
	WO 2004073593	A2	20040902	WO 2004-FR320	20040212
	WO 2004073593	A3	20041118		
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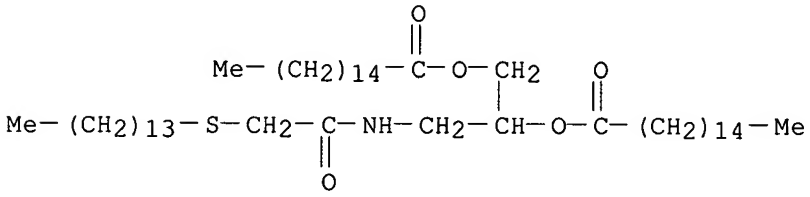
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1594486	A2	20051116	EP 2004-710413	20040212
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2006518358	T2	20060810	JP 2006-502144	20040212
	US 2006035977	A1	20060216	US 2005-542056	20050921
PRAI	FR 2003-1689	A	20030212		
	WO 2004-FR320	W	20040212		

OS MARPAT 141:200217
AB The invention discloses the use of mols., in particular in the fields of human and animal health and cosmetics. The compds. of the invention are acyl aminopropanediols, and their nitrogen and sulfur analogs, having advantageous pharmacol. and cosmetic properties. The compds. of the invention are usable in particular to prevent and/or treat cardiovascular diseases, dyslipidemias, syndrome X, restenosis, diabetes, obesity, hypertension, cancer, and dermatol. diseases, as well as in cosmetics to

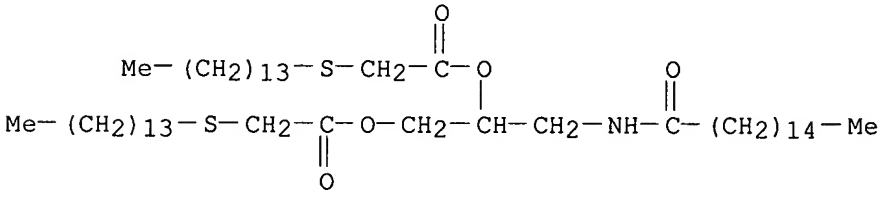
fight against skin aging and its effects in particular against the appearance of wrinkles.

IT **733010-33-8P 733010-37-2P 733010-39-4P**
733010-44-1P 733010-46-3P 733010-48-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(acyl aminopropanediols and analogs, preparation, and therapeutic and cosmetic use)

RN 733010-33-8 HCAPLUS
CN Hexadecanoic acid, 1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



RN 733010-37-2 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 1-[[(1-oxohexadecyl)amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



RN 733010-39-4 HCAPLUS
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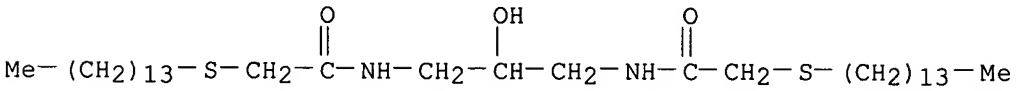
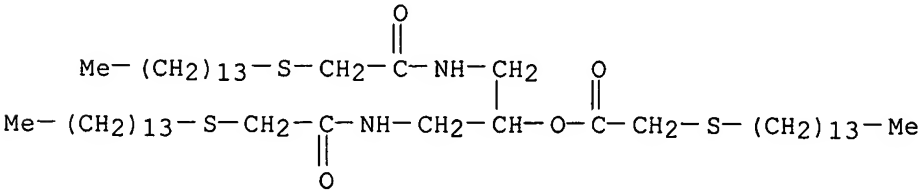
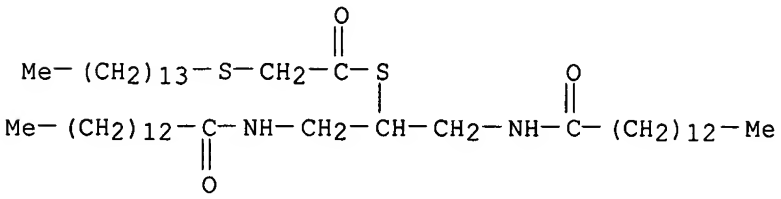


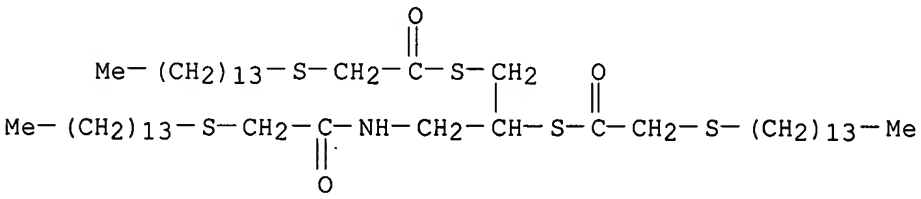
RN 733010-44-1 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-[[(tetradecylthio)acetyl]amino]-1-[[[(tetradecylthio)acetyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)



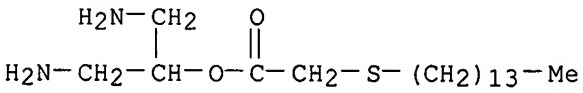
RN 733010-46-3 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[(1-oxotetradecyl)amino]-1-[[(1-oxotetradecyl)amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



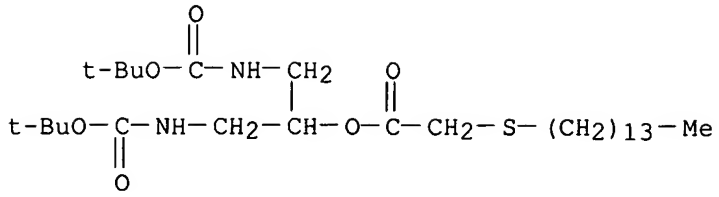
RN 733010-48-5 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



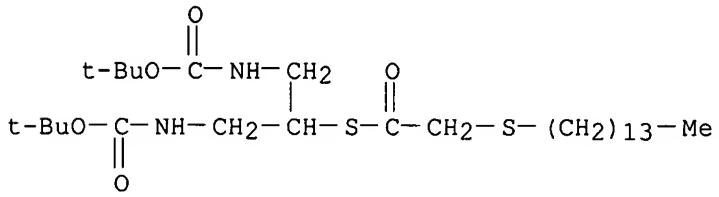
IT **733010-41-8**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(acyl aminopropanediols and analogs, preparation, and therapeutic and cosmetic use)
RN 733010-41-8 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester (9CI) (CA INDEX NAME)



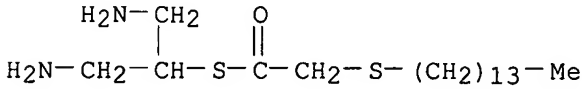
IT **733010-52-1P 733010-56-5P 733010-57-6P**
733010-61-2P 736992-56-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(acyl aminopropanediols and analogs, preparation, and therapeutic and cosmetic use)
RN 733010-52-1 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)



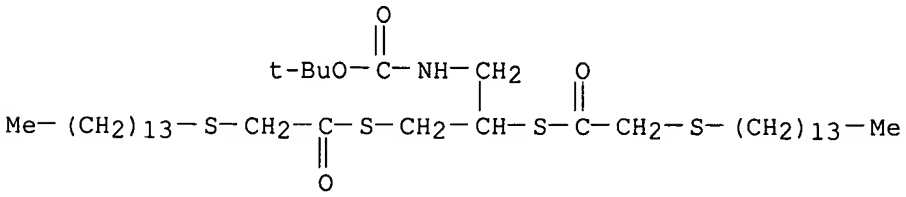
RN 733010-56-5 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



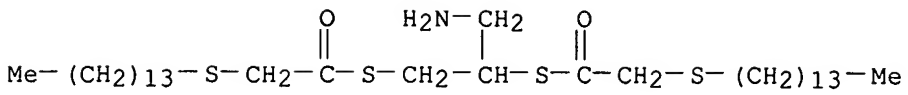
RN 733010-57-6 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S-[2-amino-1-(aminomethyl)ethyl] ester (9CI) (CA INDEX NAME)



RN 733010-61-2 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)

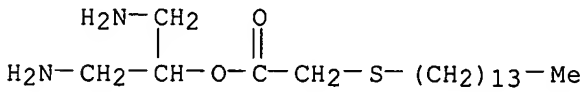


RN 736992-56-6 HCAPLUS
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-(aminomethyl)-1,2-ethanediyl] ester, hydrochloride (9CI) (CA INDEX NAME)



● HCl

IT **733010-53-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(acyl aminopropanediols and analogs, preparation, and therapeutic and cosmetic use)
RN 733010-53-2 HCAPLUS
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Kuhajda, F	1999			WO 9910321 A	HCAPLUS

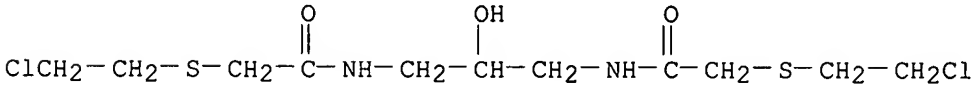
L63 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1963:408508 HCAPLUS
DN 59:8508
OREF 59:**1479h,1480a-e**
TI Enzyme-alterable alkylating agents. I. Synthesis, chemical properties, and toxicities of sulfur mustards containing enzyme-susceptible amide bonds
AU Witten, Benjamin; Williamson, Charles E.; Sass, Samuel; Miller, Jacob I.; Best, Roland; Wicks, George E., Jr.; Kramer, Stanley P.; Weinberg, Tobias; Solomon, Robert D.; Goodman, Louis E.; Seligman, Arnold M.
CS Sinai Hosp., Baltimore, MD
SO Cancer (1962), 15, 1041-55
DT Journal
LA Unavailable
AB A number of polyfunctional and monofunctional alkylating agents were synthesized in an attempt to develop carcinolytic compds. that would take advantage of reported differences in enzyme activity (e.g., esterase, amidase, and phosphamidase) between carcinoma and vital normal tissue. To take advantage of the situation wherein amidase is relatively low in tumor tissue, bifunctional amides of the general structure ClCH2CH2S(CH2)nCONH(CH2)xNHCO(CH2)nSCH2CH2Cl were compared with their monofunctional enzyme breakdown products as well as with other structurally related compds. Two methods of synthesis were employed. In one procedure, the appropriate amine in aqueous NaOH was treated with the desired acyl chloride at 0°, the precipitate filtered off and recrystd., treated with NaSCH2CH2OH to yield the alc. intermediate, which was converted to the sulfur mustard by gentle treatment with SOCl2. In the

other procedure, a monofunctional sulfur mustard carboxylic acid was prepared by irradiating with ultraviolet light a mixture of the appropriate mercaptocarboxylic acid and CH2:CHCl in the presence of a catalyst. Treatment with SOCl2 yielded an acid chloride, which was treated with the appropriate amine in CHCl3 with an excess of Na2CO3 to yield the sulfur mustard. Compds. synthesized included the chloro amides, (ClCH2CONHCH2)2CH2, (ClCH2CONHCH2)2, (ClCH2CH2CONHCH2)2, (ClCH2CONHCH2CH2)2CH2, and (ClCH2CH2CONHCH2CH2)2; the hydroxy amides, HOCH2CH2SCH2CONHMe, (HOCH2CH2SCH2CONHCH2)2, (HOCH2CH2SCH2CH2CONHCH2)2, and (HOCH2CH2SCH2CH2CONHCH2CH2)2; the sulfur mustards, (ClCH2CH2SCH2CONHCH2)2, (ClCH2CH2SCH2CONHCH2)2CHOH, (ClCH2CH2SCH2CH2CONHCH2)2, (ClCH2CH2SCH2CONHCH2)2CH2, (ClCH2CH2SCH2CONHCH2CH2)2, (ClCH2CH2SCH2CH2CONHCH2)2CHOH, (ClCH2CH2SCH2CH2CONHCH2CH2)2, (ClCH2CH2SCH2CONHCH2CH2)CH2, ClCH2CH2SCH2CO2H, ClCH2CH2SCH2CONHMe, ClCH2CH2SCH2CH2CO2H, and ClCH2CH2SCH2COCl. Hydrolysis of these compds. at the C-Cl bond and the amide link was studied under various conditions. Hydrolysis of the amide link occurred only in the chlorine-containing compds. and not in the glycols. Comparisons of toxicities were encouraging in that the bifunctional compds. were much more toxic both to dogs and mice than were their monofunctional products. Furthermore, the ratio of toxicity of the bifunctional compound to its products was greater in dogs than in mice. This is in agreement with the lower serum amidase activity of dogs. Further interest in these agents was provided by the possibility of developing cytotoxic but rapidly hydrolyzing and detoxifying bifunctional agents for use in intra-arterial chemotherapy. 51 references.

IT **91354-85-7**, Acetamide, N,N'-(2-hydroxytrimethylene)bis[2-[(2-chloroethyl)thio]- **91972-62-2**, Propionamide, N,N'-(2-hydroxytrimethylene)bis[3-[(2-chloroethyl)thio]-
(preparation of)

RN 91354-85-7 HCAPLUS

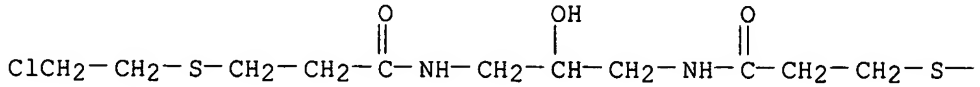
CN Acetamide, N,N'-(2-hydroxytrimethylene)bis[2-[(2-chloroethyl)thio]- (7CI) (CA INDEX NAME)



RN 91972-62-2 HCAPLUS

CN Propionamide, N,N'-(2-hydroxytrimethylene)bis[3-[(2-chloroethyl)thio]- (7CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

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CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 15 Aug 2006 (20060815/PD)
FILE LAST UPDATED: 15 Aug 2006 (20060815/ED)
HIGHEST GRANTED PATENT NUMBER: US7093300
HIGHEST APPLICATION PUBLICATION NUMBER: US2006179536
CA INDEXING IS CURRENT THROUGH 15 Aug 2006 (20060815/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 15 Aug 2006 (20060815/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2006
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2006


=> d his l67

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     FILE 'REGISTRY' ENTERED AT 08:20:37 ON 15 AUG 2006

     FILE 'HCAPLUS' ENTERED AT 08:20:57 ON 15 AUG 2006

     FILE 'USPATFULL' ENTERED AT 08:21:32 ON 15 AUG 2006
L67            3 S L59 OR L28

     FILE 'USPATFULL' ENTERED AT 08:21:55 ON 15 AUG 2006

=> d bib abs hitstr tot

L67  ANSWER 1 OF 3  USPATFULL on STN
AN     2006:182580  USPATFULL
TI     Therapeutic use of acyl glycerols and the nitrogen- and sulphur-
       containing analogues thereof
IN     Darteil, Raphael, Lille, FRANCE
       Caumont-Bertrand, Karine, Frelinghien, FRANCE
       Najib, Jamila, Santes, FRANCE
PI     US 2006154984      A1   20060713
AI     US 2004-542512     A1   20040212 (10)
       WO 2004-FR322           20040212
                               20050718  PCT 371 date
PRAI   FR 2003-1691        20030212
DT     Utility
FS     APPLICATION
LREP   NIXON & VANDERHYE, PC, 901 NORTH GLEBE ROAD, 11TH FLOOR, ARLINGTON, VA,
       22203, US
CLMN   Number of Claims: 25
ECL    Exemplary Claim: 1-24
DRWN   6 Drawing Page(s)
LN.CNT 4597
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     The invention relates to the use of acyl glycerols and the nitrogen- and
       sulfur-containing analogues thereof in the therapeutic field,
       particularly in human health. The inventive compounds have advantageous
       pharmacological properties and are particularly of use for the
       prevention or treatment of neurodegenerative diseases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT   733010-33-8P 733010-35-0P 733010-37-2P
```
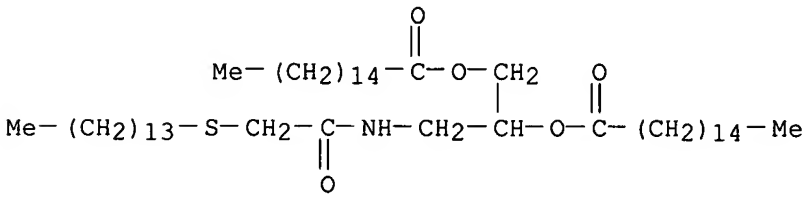
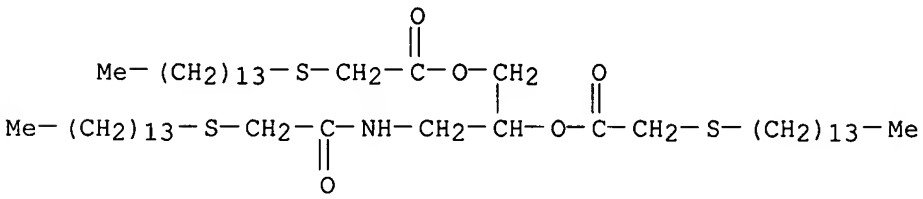

733010-39-4P 733010-46-3P 733010-48-5P
(acyl glycerols and nitrogen and sulfur analogs for therapeutic use)

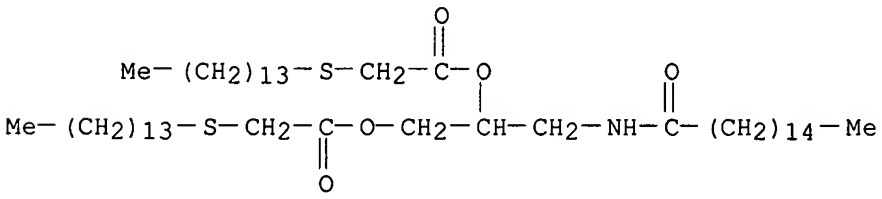
RN 733010-33-8 USPATFULL
CN Hexadecanoic acid, 1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



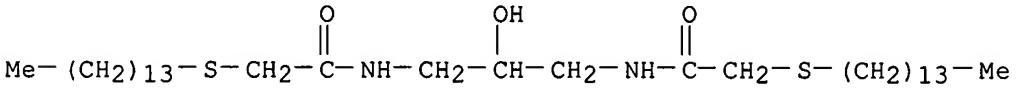
RN 733010-35-0 USPATFULL
CN Acetic acid, (tetradecylthio)-, 1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



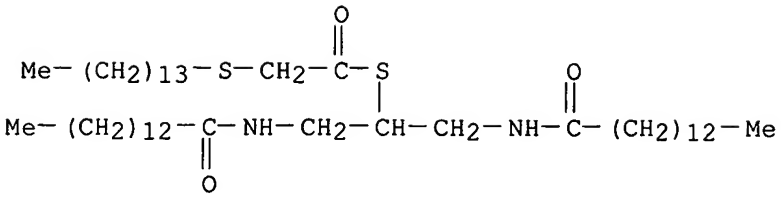
RN 733010-37-2 USPATFULL
CN Acetic acid, (tetradecylthio)-, 1-[[(1-oxohexadecyl)amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



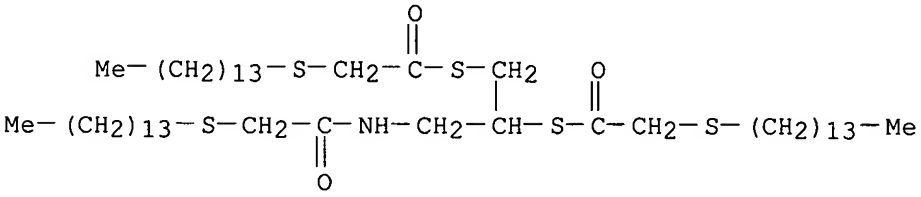
RN 733010-39-4 USPATFULL
CN Acetamide, N,N'-(2-hydroxy-1,3-propanediyl)bis[2-(tetradecylthio)- (9CI) (CA INDEX NAME)



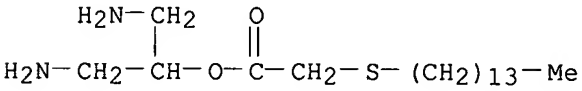
RN 733010-46-3 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[(1-oxotetradecyl)amino]-1-[[(1-oxotetradecyl)amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



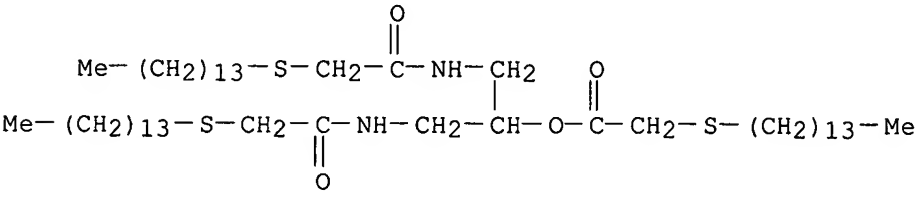
RN 733010-48-5 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



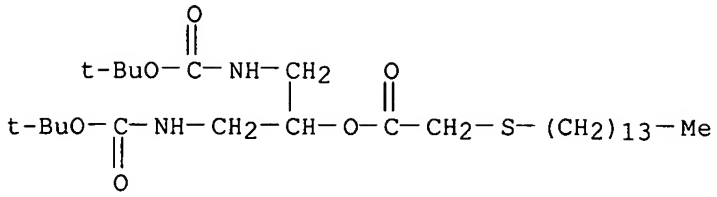
IT **733010-41-8 733010-44-1**
(acyl glycerols and nitrogen and sulfur analogs for therapeutic use)
RN 733010-41-8 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester (9CI) (CA INDEX NAME)



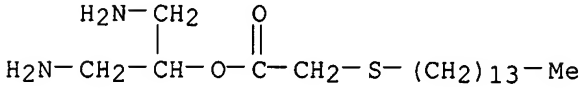
RN 733010-44-1 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-[[(tetradecylthio)acetyl]amino]-1-[[[(tetradecylthio)acetyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)



IT **733010-52-1P 733010-53-2P 733010-56-5P 733010-57-6P 733010-61-2P 733010-62-3P**
(acyl glycerols and nitrogen and sulfur analogs for therapeutic use)
RN 733010-52-1 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)

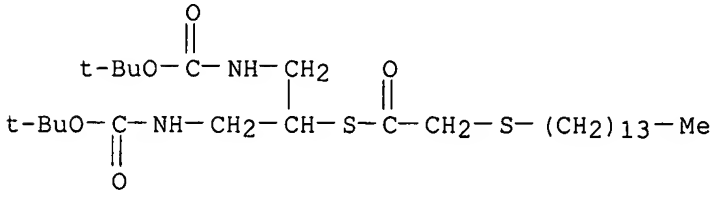


RN 733010-53-2 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester, dihydrochloride (9CI) (CA INDEX NAME)

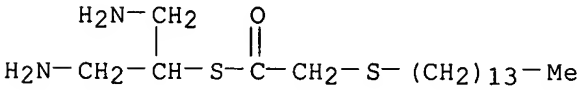


●2 HCl

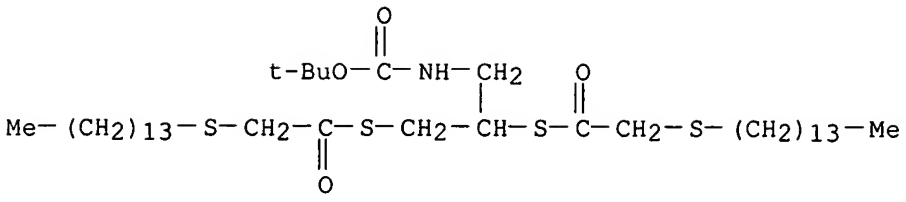
RN 733010-56-5 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



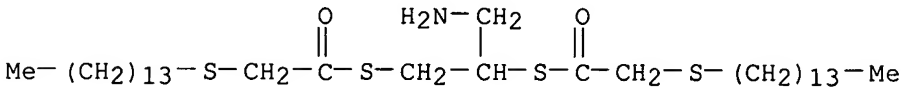
RN 733010-57-6 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S-[2-amino-1-(aminomethyl)ethyl] ester (9CI) (CA INDEX NAME)



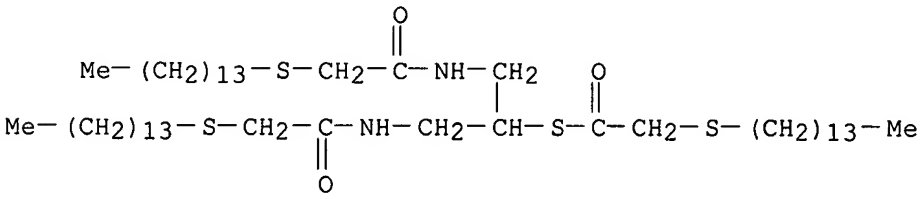
RN 733010-61-2 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



RN 733010-62-3 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-(aminomethyl)-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



IT **733010-54-3P**
(acyl glycerols and nitrogen and sulfur analogs for therapeutic use)
RN 733010-54-3 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(tetradecylthio)acetyl]amino]-1-[[[(tetradecylthio)acetyl]amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



L67 ANSWER 2 OF 3 USPATFULL on STN
AN 2006:81160 USPATFULL
TI Acylated aminopropanediols and analogues and therapeutic uses thereof
IN Darteil, Raphael, Lille, FRANCE
Caumont-Bertrand, Karine, Frelinghien, FRANCE
Najib, Jamila, Santes, FRANCE
PI US 2006069156 A1 20060330
AI US 2004-541225 A1 20040212 (10)
WO 2004-FR319 20040212
20050701 PCT 371 date
PRAI FR 2003-1688 20030212
DT Utility
FS APPLICATION
LREP NIXON & VANDERHYE, PC, 901 NORTH GLEBE ROAD, 11TH FLOOR, ARLINGTON, VA, 22203, US
CLMN Number of Claims: 17
ECL Exemplary Claim: 1-17
DRWN 3 Drawing Page(s)
LN.CNT 2995
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to novel acylated aminopropanediols and the nitrogen and sulfur analogues thereof, pharmaceutical compositions

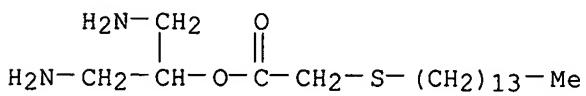
comprising same, therapeutic uses thereof, in particular for the treatment of cerebral ischemia. The invention also provides a method of preparing said derivatives.

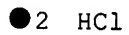
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **733010-53-2P**, 1,3-Diamino-2-(tetradecylthioacetyloxy)propane dihydrochloride
(PPARα agonist; preparation of acyl aminopropanediols as PPAR agonists for treating ischemia)

RN 733010-53-2 USPATFULL

CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester, dihydrochloride (9CI) (CA INDEX NAME)

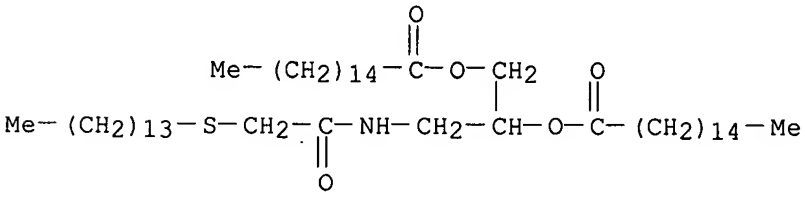




IT **733010-33-8P**, 1-[(Tetradecylthioacetyl)amino]-2,3-di[(palmitoyl)oxy]propane **733010-35-0P**, 3-[(Tetradecylthioacetyl)amino]-1,2-di[(tetradecylthioacetyl)oxy]propane **733010-37-2P**, 3-[(Palmitoyl)amino]-1,2-di[(tetradecylthioacetyl)oxy]propane **733010-39-4P**, 1,3-Di[(tetradecylthioacetyl)amino]propan-2-ol **733010-41-8P**, 1,3-Diamino-2-[[(tetradecylthio)acetyl]oxy]propane **733010-44-1P**, 1,3-Di[(tetradecylthioacetyl)amino]-2-[(tetradecylthioacetyl)oxy]propane **733010-48-5P 733010-54-3P**, 1,3-Di[(tetradecylthioacetyl)amino]-2-[(tetradecylthioacetyl)thio]propane **738604-36-9P**, 1,3-Dioleoylamino-2-(tetradecylthioacetyloxy)propane
(PPARα agonist; preparation of acyl aminopropanediols as PPAR agonists for treating ischemia)

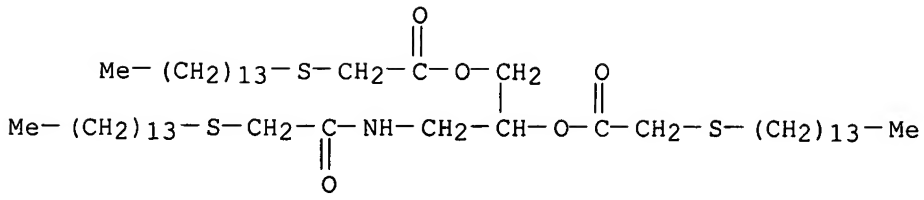
RN 733010-33-8 USPATFULL

CN Hexadecanoic acid, 1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

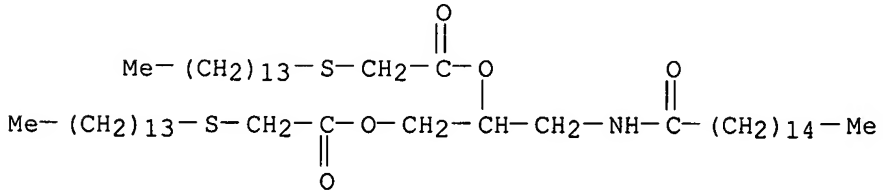


RN 733010-35-0 USPATFULL

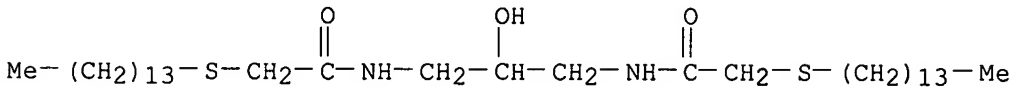
CN Acetic acid, (tetradecylthio)-, 1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



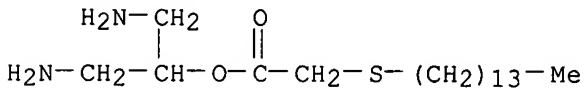
RN 733010-37-2 USPATFULL
CN Acetic acid, (tetradecylthio)-, 1-[[(1-oxohexadecyl)amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



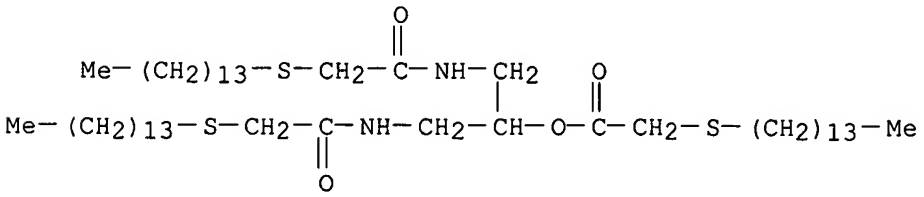
RN 733010-39-4 USPATFULL
CN Acetamide, N,N'-(2-hydroxy-1,3-propanediyl)bis[2-(tetradecylthio)- (9CI) (CA INDEX NAME)



RN 733010-41-8 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester (9CI) (CA INDEX NAME)

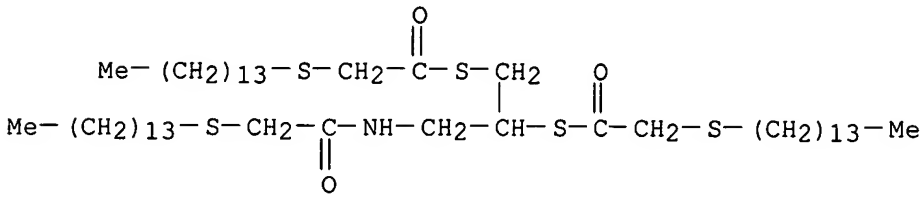


RN 733010-44-1 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-[[(tetradecylthio)acetyl]amino]-1-[[[(tetradecylthio)acetyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)

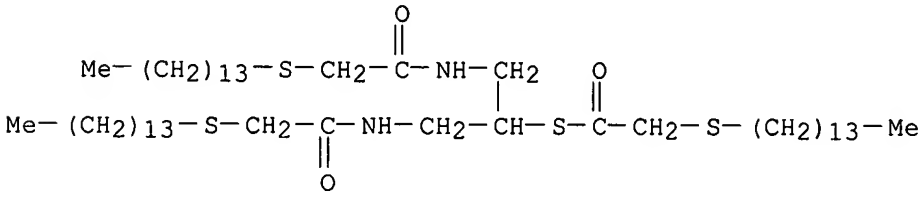


RN 733010-48-5 USPATFULL

CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



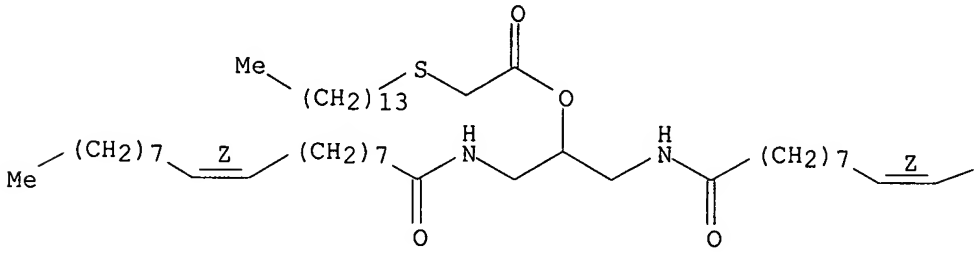
RN 733010-54-3 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(tetradecylthio)acetyl]amino]-1-[[[(tetradecylthio)acetyl]amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



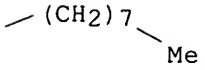
RN 738604-36-9 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-[[(9Z)-1-oxo-9-octadecenyl]amino]-1-[[[(9Z)-1-oxo-9-octadecenyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



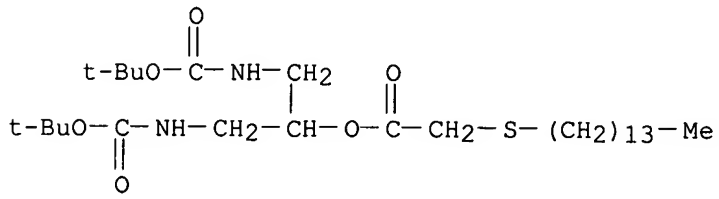
PAGE 1-B



IT **733010-52-1P**, 1,3-Di[(tert-butyloxycarbonyl)amino]-2-[[(tetradecylthio)acetyl]oxy]propane **733010-56-5P**, 1,3-Di[(tert-butyloxycarbonyl)amino]-2-[(tetradecylthioacetyl)thio]propane **733010-61-2P**, 1-[(tert-Butyloxycarbonyl)amino]-2,3-di[[(tetradecylthio)acetyl]thio]propane **736992-56-6P**, 1-Amino-2,3-di[[(tetradecylthio)acetyl]thio]propane hydrochloride **738604-37-0P**, 1,3-Diamino-2-(tetradecylthioacetylthio)propane dihydrochloride
(intermediate; preparation of acyl aminopropanediols as PPAR agonists for treating ischemia)

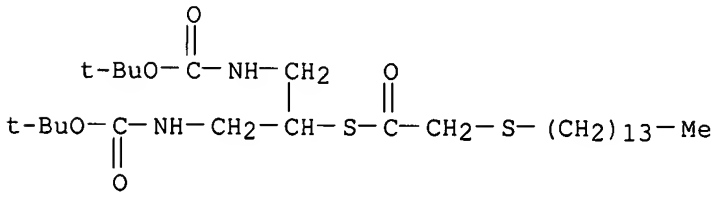
RN 733010-52-1 USPATFULL

CN Acetic acid, (tetradecylthio)-, 2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)



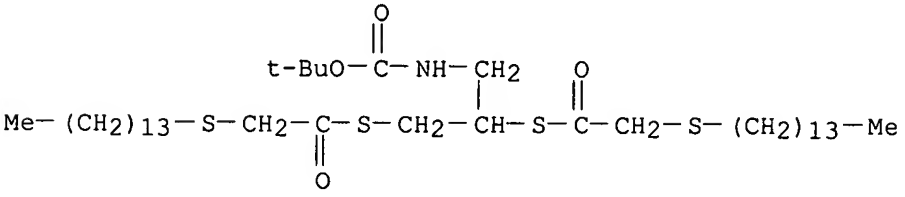
RN 733010-56-5 USPATFULL

CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



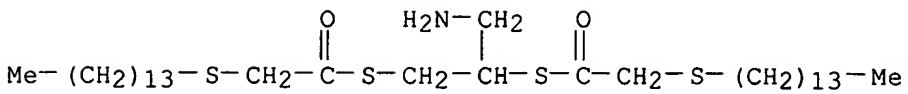
RN 733010-61-2 USPATFULL

CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



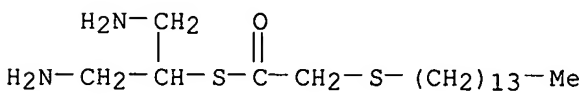
RN 736992-56-6 USPATFULL

CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-(aminomethyl)-1,2-ethanediyl] ester, hydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 738604-37-0 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S-[2-amino-1-(aminomethyl)ethyl] ester, dihydrochloride (9CI) (CA INDEX NAME)

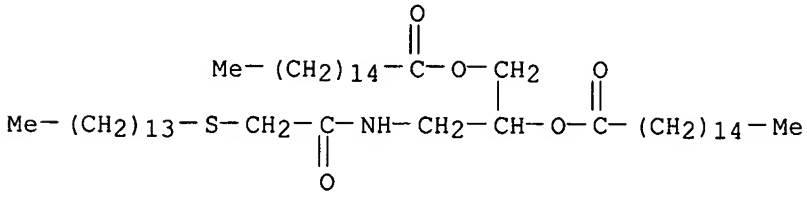


●2 HCl

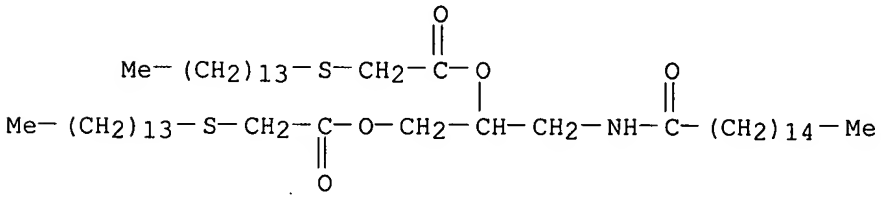
L67 ANSWER 3 OF 3 USPATFULL on STN
AN 2006:41325 USPATFULL
TI Uses of acylated aminopropanediols and sulphur and nitrogen analogues of same f
IN Najib, Jamila, Santes, FRANCE
PA Gentif, Loos, FRANCE, F-59120 (non-U.S. corporation)
PI US 2006035977 A1 20060216
AI US 2003-542056 A1 20040212 (10)
WO 2004-FR320 20040212
20050921 PCT 371 date
PRAI FR 2003-1689 20030212
DT Utility
FS APPLICATION
LREP NIXON & VANDERHYE, PC, 901 NORTH GLEBE ROAD, 11TH FLOOR, ARLINGTON, VA, 22203, US
CLMN Number of Claims: 19
ECL Exemplary Claim: 1-18
DRWN 4 Drawing Page(s)
LN.CNT 3511
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to the use of molecules, particularly in the fields of human and veterinary health and cosmetics. The inventive compounds are acylated aminopropanediols and the nitrogen- and sulfur-containing analogues thereof and have advantageous pharmacological and cosmetic properties. In particular, the inventive compounds can be used to prevent and/or treat dyslipidemias, cardiovascular diseases, syndrome X, restenosis, diabetes, obesity, hypertension, some cancers, dermatological diseases, and, in the field of cosmetics, to combat skin ageing and the effects of same, in particular the development of wrinkles and the like.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **733010-33-8P 733010-37-2P 733010-39-4P**
733010-44-1P 733010-46-3P 733010-48-5P
(acyl aminopropanediols and analogs, preparation, and therapeutic and cosmetic use)

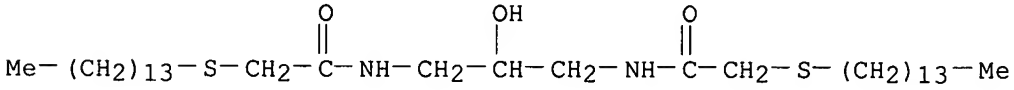
RN 733010-33-8 USPATFULL
CN Hexadecanoic acid, 1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



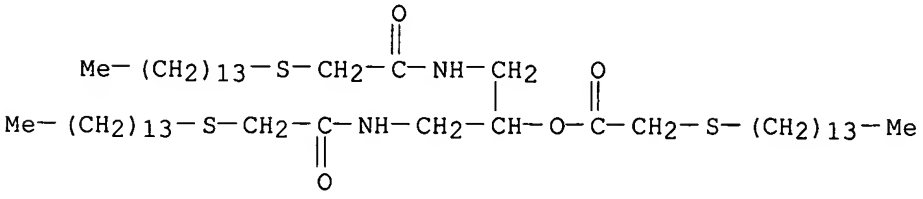
RN 733010-37-2 USPATFULL
CN Acetic acid, (tetradecylthio)-, 1-[[(1-oxohexadecyl)amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)



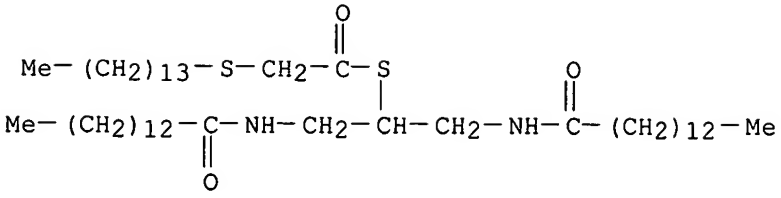
RN 733010-39-4 USPATFULL
CN Acetamide, N,N'-(2-hydroxy-1,3-propanediyl)bis[2-(tetradecylthio)- (9CI) (CA INDEX NAME)



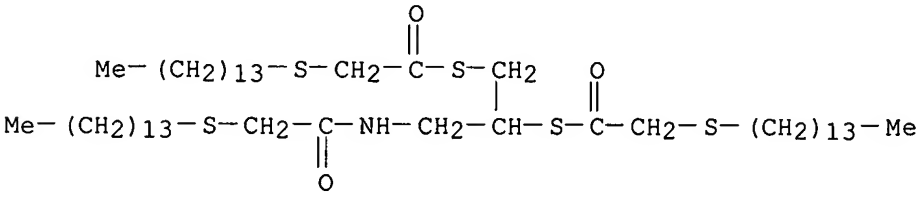
RN 733010-44-1 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-[[(tetradecylthio)acetyl]amino]-1-[[[(tetradecylthio)acetyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)



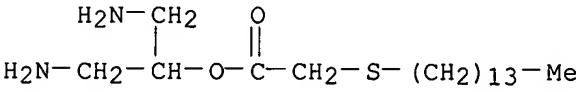
RN 733010-46-3 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[(1-oxotetradecyl)amino]-1-[[(1-oxotetradecyl)amino]methyl]ethyl] ester (9CI) (CA INDEX NAME)



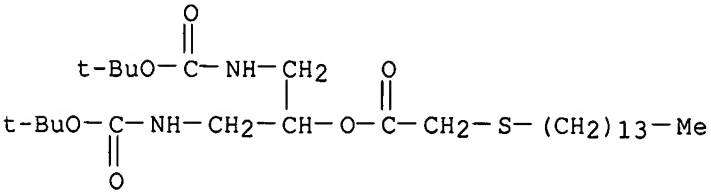
RN 733010-48-5 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(tetradecylthio)acetyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)



IT **733010-41-8**
(acyl aminopropanediols and analogs, preparation, and therapeutic and cosmetic use)
RN 733010-41-8 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester (9CI) (CA INDEX NAME)

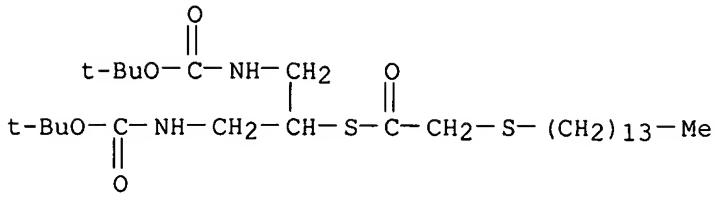


IT **733010-52-1P 733010-56-5P 733010-57-6P 733010-61-2P 736992-56-6P**
(acyl aminopropanediols and analogs, preparation, and therapeutic and cosmetic use)
RN 733010-52-1 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]ethyl ester (9CI) (CA INDEX NAME)

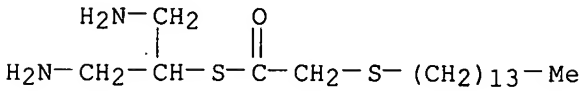


RN 733010-56-5 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S-[2-[[(1,1-dimethylethoxy)carbonyl]amino]-1-[[[(1,1-dimethylethoxy)carbonyl]amino]m

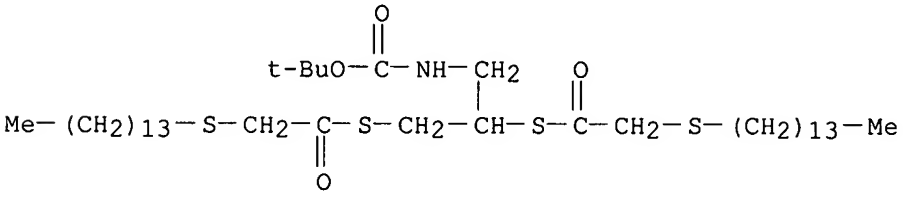
ethyl]ethyl] ester (9CI) (CA INDEX NAME)



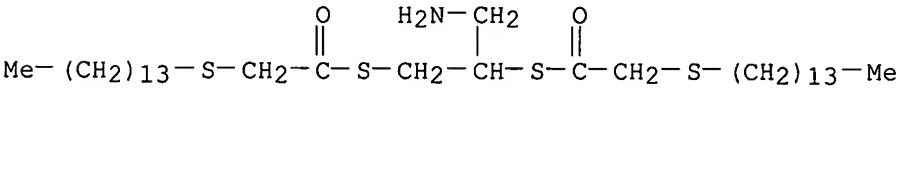
RN 733010-57-6 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S-[2-amino-1-(aminomethyl)ethyl] ester (9CI) (CA INDEX NAME)



RN 733010-61-2 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]-1,2-ethanediyl] ester (9CI) (CA INDEX NAME)

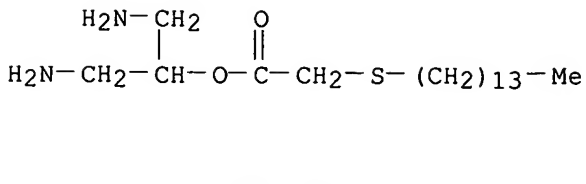


RN 736992-56-6 USPATFULL
CN Ethanethioic acid, (tetradecylthio)-, S,S'-[1-(aminomethyl)-1,2-ethanediyl] ester, hydrochloride (9CI) (CA INDEX NAME)



● HCl

IT **733010-53-2P**
(acyl aminopropanediols and analogs, preparation, and therapeutic and cosmetic use)
RN 733010-53-2 USPATFULL
CN Acetic acid, (tetradecylthio)-, 2-amino-1-(aminomethyl)ethyl ester, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

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=> d his

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               SET COST OFF

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L2            27 S E3-E13
               E DARTEIL/AU
L3            20 S E4-E8
               E CAUMONT/AU
L4            11 S E8,E14
               E BERTRAND/AU
L5             5 S E3
               E BERTRAND K/AU
L6             8 S E3-E5,E7
               E NAJIB/AU
L7            33 S E22,E24,E25
               SEL RN L1

     FILE 'REGISTRY' ENTERED AT 07:29:49 ON 15 AUG 2006
L8            35 S E1-E35
L9             9 S 733010-33-8 OR 733010-35-0 OR 733010-37-2 OR 733010-39-4 OR 7
L10            1 S (733010-33-8 OR 733010-35-0 OR 733010-37-2 OR 733010-39-4 OR
L11           10 S L9,L10
L12           25 S L8 NOT L11
L13               STR
L14            1 S L13
L15               STR L13
L16            0 S L15
L17               SCR 1926 OR 2019
L18               SCR 2021
L19               SCR 1126 OR 1149 OR 1164
L20               SCR 1199 AND 1992
L21            0 S L13 AND (L17 OR L18) AND L19 AND L20
L22               STR L13
L23           25 S L22 AND L20 AND L19 AND (L18 OR L17)
L24         7731 S L22 AND L20 AND L19 AND (L18 OR L17) FUL
               SAV L24 KUMAR541/A TEMP
L25           18 S L8 AND L24
L26            8 S L25 NOT L11
L27            5 S L26 NOT (C19H39NO3S OR C15H28N2O5S OR C12H21NO4S2)
L28           15 S L11,L27
L29            8 S L15 SAM SUB=L24
L30               STR L15
L31            7 S L30 SAM SUB=L24
L32          110 S L30 FUL SUB=L24
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L35         141 S L33 FUL SUB=L24
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L36             STR
L37         154 S L32 OR L35
L38           1 S L36 SAM SUB=L37
L39          19 S L36 FUL SUB=L37
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L40         135 S L37 NOT L39
L41         120 S L40 NOT L28

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L42           0 S L28
L43           1 S L41
                SEL AN
                EDIT E36 /AN /OREF

     FILE 'HCAPLUS' ENTERED AT 08:03:57 ON 15 AUG 2006
L44           1 S E36
L45           3 S L28
L46          42 S L41
L47           1 S L44 AND L45,L46
L48           3 S L45 AND L1-L7
L49           2 S L46 AND L1-L7
L50          31 S L46 AND (PD<=20030212 OR PRD<=20030212 OR AD<=20030212)
L51           0 S L41 (L) (THU OR PAC OR PKT OR DMA)/RL AND L50
L52           0 S L41 (L) BAC/RL AND L50
L53          14 S L50 AND (PHARMACEUT? OR PHARMACOL? OR BIOMOL? OR PATHOL? OR C
L54          16 S L50 AND P/DT
L55          24 S L53,L54
L56           7 S L50 NOT L55
                SEL HIT RN L50

     FILE 'REGISTRY' ENTERED AT 08:08:36 ON 15 AUG 2006
L57          62 S E37-E98
L58          58 S L41 NOT L57
L59           3 S L58 AND (C19H40N2OS2 OR C35H69NO2S4 OR C47H92N2O3S2)

     FILE 'HCAOLD' ENTERED AT 08:17:01 ON 15 AUG 2006
L60           0 S L59

     FILE 'HCAPLUS' ENTERED AT 08:17:04 ON 15 AUG 2006
L61           2 S L59
L62           4 S L47-L49,L61
L63           4 S L45,L62
                SEL RN

     FILE 'REGISTRY' ENTERED AT 08:19:24 ON 15 AUG 2006
L64         168 S E99-E266
L65          23 S L64 AND L24
L66           5 S L65 NOT L28,L59

     FILE 'REGISTRY' ENTERED AT 08:20:37 ON 15 AUG 2006

     FILE 'HCAPLUS' ENTERED AT 08:20:57 ON 15 AUG 2006

     FILE 'USPATFULL' ENTERED AT 08:21:32 ON 15 AUG 2006
L67           3 S L59 OR L28
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FILE 'USPATFULL' ENTERED AT 08:21:55 ON 15 AUG 2006

=>

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: S. Kumar Examiner #: 69594 Date: 8/10/06

Art Unit: 1681 Phone Number: 2-0640 Serial Number: 10/541225

Location (Bldg/Room#): REM (Mailbox #): 5C18 Results Format Preferred (circle): PAPER DISK

5C03

MG

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To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Acylated aminopropanediols and analogs and .....

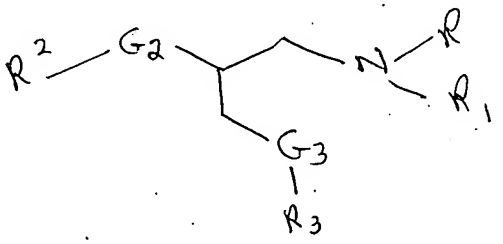
Inventors (please provide full names): Raphael Darteil et. al.

Earliest Priority Date: 2/12/03

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only ***Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.***



G2 & G3 are O, S or NR^4, and G2 & G3 are not simultaneously NR^4

R & R^4 are H, alkyl

R1 R^2 & R3 are H, COR^5, $CO(CH_2)_{2n+1}-X-R_6$

R^5 is alkyl

X is S, Se, SO or SO_2

n is 0-11

R_6 is alkyl etc.

proviso that G2 R_2 and G3 R_3 do not represent OH simultaneously.

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